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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Name of Applicant: CATALYTIC DISTILLATION TECHNOLOGIES  
Address of Applicant: 10100 Bay Area Boulevard  
Pasadena, Texas 77507

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

REVOCATION AND SUBSTITUTION  
OF POWER OF ATTORNEY UNDER 37 C.F.R. §1.36

Dear Sir:

Pursuant to 37 C.F.R. §1.36, CATALYTIC DISTILLATION TECHNOLOGIES, the applicant of the patent applications listed on the attached APPENDIX A, revokes all previous powers of attorney in the patent applications listed on the attached APPENDIX A, hereby appoints the following attorneys and/or agents assigned to the Customer Number listed below to prosecute the patent applications listed on the attached APPENDIX A, and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Customer Number 70312

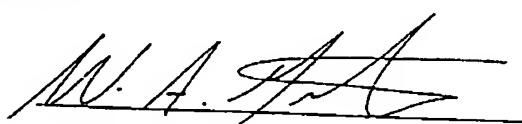
Please direct all correspondence and telephone calls concerning the patent applications listed on the attached APPENDIX A to the address associated with Customer Number 70312.

Further, please change the attorney/docket number corresponding to the patent applications listed in APPENDIX A from the attorney/docket number on file to that indicated on APPENDIX A.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the above-identified applicant.

The undersigned hereby declares that all statements made herein of the undersigned's own knowledge are true, that all statements made on information and belief are believed to be true, and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the patent applications listed on the attached APPENDIX A or any patents issuing thereon.

Signature:



Dated:

8 May 2007

Name:

Willibrord A. Grotel

Title:

Managing Director

Catalytic Distillation Technologies

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**APPENDIX A**

1. **Patent Application/Serial No.:** 11/650,874  
**Title:** TREATMENT OF OLEFIN FEED TO PARAFFIN ALKYLATION  
**Filed:** 01/08/2007  
**Assignee:** Catalytic Distillation Technologies  
**Reel/Frame No.:** 018778/0806  
**Reference No:** 17344/172001 (CDT 1996)
  
2. **Patent Application/Serial No.:** 11/107,667  
**Title:** DOUBLE BOND HYDROISOMERIZATION PROCESS  
**Filed:** 04/15/2005  
**Assignee:** Catalytic Distillation Technologies  
**Reel/Frame No.:** 016690/0132  
**Reference No:** 17344/171001 (CDT 1991)
  
3. **Patent Application/Serial No.:** 10/635,763  
**Title:** DUAL PRESSURE CATALYTIC DISTILLATION HYDROGENATION COLUMN SYSTEM FOR THE FRONT END OF AN ETHYLENE PLANT  
**Filed:** 08/05/2003  
**Assignee:** Catalytic Distillation Technologies  
**Reel/Frame No.:** 017671/0194  
**Reference No:** 17344/168001 (CDT 1985)

**APPENDIX A (cont'd)**

4. Patent Application/Serial No.: 11/544,172  
Title: BENZENE REMNAL FROM FCC NAPHTHA  
Filed: 10/06/2006  
Assignee: Catalytic Distillation Technologies  
Reel/Frame No.: 018400/0494  
Reference No: 17344/167001 (CDT 1973)
5. Patent Application/Serial No.: 11/473,937  
Title: PARAFFIN ALKYLATION  
Filed: 06/23/2006  
Assignee: Catalytic Distillation Technologies  
Reel/Frame No.: 018032/0143  
Reference No: 17344/159001 (CDT 1941)

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